

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. – 4. (Cancelled)

5. (Currently Amended) A tire pressure detecting apparatus for a vehicle, comprising:

at least two terminals, each of the terminals comprising:

a tire pressure sensor configured to detect a tire pressure; and

a transmitter configured to transmit tire pressure data based on the detected tire pressure;

at least two receivers; and

a controller,

wherein each of the terminals is attached to a corresponding tire that is positioned in a respective area of the vehicle;

wherein each of the receivers is attached to a part of the vehicle corresponding to an associated tire,

wherein each of the receivers is configured to: (a) receive and demodulate the tire pressure data transmitted by the transmitters; and (b) and to detect and transmit a reception level of the received and demodulated tire pressure data,

wherein the controller is configured to identify the receiver that has the highest reception level,

wherein the controller is configured to obtain the tire pressure data from the identified receiver, and

wherein the controller is configured to relate the obtained tire pressure data with the tire associated with the identified receiver.

6. (Previously Presented) The tire pressure detecting apparatus of claim 5 further comprising:

a display that is configured to display the obtained tire pressure data and the location of the tire associated with the identified receiver in the vehicle.

7. (Previously Presented) The tire pressure detecting apparatus of claim 5, wherein each of the receivers comprises:
an RSSI circuit configured to detect the reception level.

8. (Previously Presented) The tire pressure detecting apparatus of claim 6, wherein each of the RSSI circuits comprises:

an attenuator that is configured to adjust the level of a received signal;
a rectifier; and
a smoothing circuit.

9. – 12. (Cancelled):

13. (Currently Amended) A tire pressure detecting apparatus for a vehicle, comprising:

a plurality of terminals, wherein each of the terminals is positioned proximate a corresponding tire of the vehicle, wherein each of the terminals is configured to detect a tire pressure of the corresponding tire, wherein each of the terminals is configured to transmit a tire pressure signal corresponding to the detected tire pressure, and wherein each of the terminals comprises:
a tire pressure sensor configured to detect the tire pressure; and
a transmitter configured to transmit the tire pressure signal based on the detected tire pressure;

a controller, wherein the controller is configured to identify the pressure in, and the location of, each of the tires; and

a plurality of receivers, wherein each of the receivers is associated with a corresponding terminal,

wherein each of the receivers is configured to: (a) receive and demodulate tire pressure signals transmitted by all of the transmitters; and (b), and wherein each of the receivers is configured to detect and transmit a reception level of each received and demodulated tire pressure signal received.

14. (Previously Presented) The tire pressure detecting apparatus of claim 13, wherein, for any given tire pressure signal, the controller is configured to identify which receiver has the highest reception level.

15. (Previously Presented) The tire pressure detecting apparatus of claim 13, wherein, based on the signal received by the receiver that has the highest reception level, the controller is configured to obtain: (a) the pressure in the particular tire corresponding the signal; and (b) the location of the particular tire.

16. (New) The tire pressure detecting apparatus of claim 5, wherein the tire pressure data is output from the identified receiver and is received by the controller as a demodulated analog or digital signal.